



CLASSIFICATION OF DRUG-RELATED PROBLEMS IN PEDIATRIC PATIENTS AND ACCEPTANCE OF PHARMACEUTICAL INTERVENTIONS

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Background and importance

Pediatric patients are particularly susceptible to experience medication-related problems (MRPs) due to factors such as pharmacokinetic differences or the need to adapt adult dosages/formulations for children

Aim and objectives

The present study aims to classify the MRPs identified, analyze the type of pharmaceutical intervention (PI) performed and evaluate the acceptance carried out by the pharmaceutical validation of treatments after the implementation of an assisted electronic prescribing system (AEP) in the pediatric unit of the hospital. The goal is to improve the pharmaceutical care of pediatric patients.

Material and methods

- 19-months observational and retrospective study (June 2022-December 2023)
- MRPs detected and PIs performed during pharmaceutical validation process were collected and classified.
 - The MRPs were grouped according to necessity, effectiveness or safety.
 - the PIs were gruped based on the type of intervention: dosage adjustment, treatment continuation, schedule modification, change in route of administration, formulation substitution,

duplication, and adverse effects/interactions. Subsequently, the acceptance of the PIs was evaluated.



Conclusion and relevance

- 1. The implementation of the AEP represents a significant contribution to the prevention of MRPs in pediatric patients.
- 2.52% of detected MRPs pertained to safety, particularly related to dosage, consistent with pediatric susceptibility. The discrepancy between the number of MRPs and PIs can be attributed to the fact that a single PI may refer to more than one MRP.
- 3.Over 50% of PIs were accepted, underscoring the pharmacist's role in prescribing medications for pediatric patients.

